

Figure 9-17. PEEP pump and reservoir

9.17 Piston/cylinder and motor/encoder assemblies

Piston/cylinder and motor/encoder assemblies parts list

Item no. (Figure 9-18)	Part no.	Quantity	Description
1	G-061134-00	1	Piston/cylinder assembly
2	--	1	• Bracket, motor angle
3	G-061251-00	1	• Check valve, cylinder inlet (white housing)
4	G-061250-00	1	• Check valve, cylinder outlet (blue housing)
5	G-060045-00	2	• Gasket, check valve
6	G-062161-00	1	Cover, rack
7	G-060977-00	3	Screw, SOC, M3 x 12 (Attaches rack cover to piston/ cylinder)
8	G-060995-00	3	Washer, SR, M3 (Attaches rack cover to piston/cylinder)
9	G-061202-00	1	Screw, SOC, M5 x 12, POZIDRIV (Attaches piston/cylinder to cabinet)
10	G-060999-00	1	Washer, flat, M5 (Attaches piston/cylinder to cabinet)
11	G-060997-00	1	Washer, SR, M5 (Attaches piston/cylinder to cabinet)
12	G-061138-00	1	Motor/encoder assembly
13	G-061039-00	4	Screw, SOC, M5 x 20 (Attaches motor/encoder)
14	G-060997-00	4	Washer, SR, M5 (Attaches motor/encoder)
15	G-060999-00	4	Washer, flat, M5 (Attaches motor/encoder)
16	G-061255-00	2	Optoswitch (motor-opto) assembly
17	G-060976-00	8	Screw, SOC, M3 x 8 (Attaches optoswitch)
18	G-060995-00	8	Washer, SR, M3 (Attaches optoswitch)
19	--	30 cm	Tube, silicone, 3/4-in. ID x 1-in. OD (Part of tube kit, P/N G-061406-00 (Section 9.21)) (not shown)
20	G-060532-00	A/R	Grease, 10 grams (not shown)

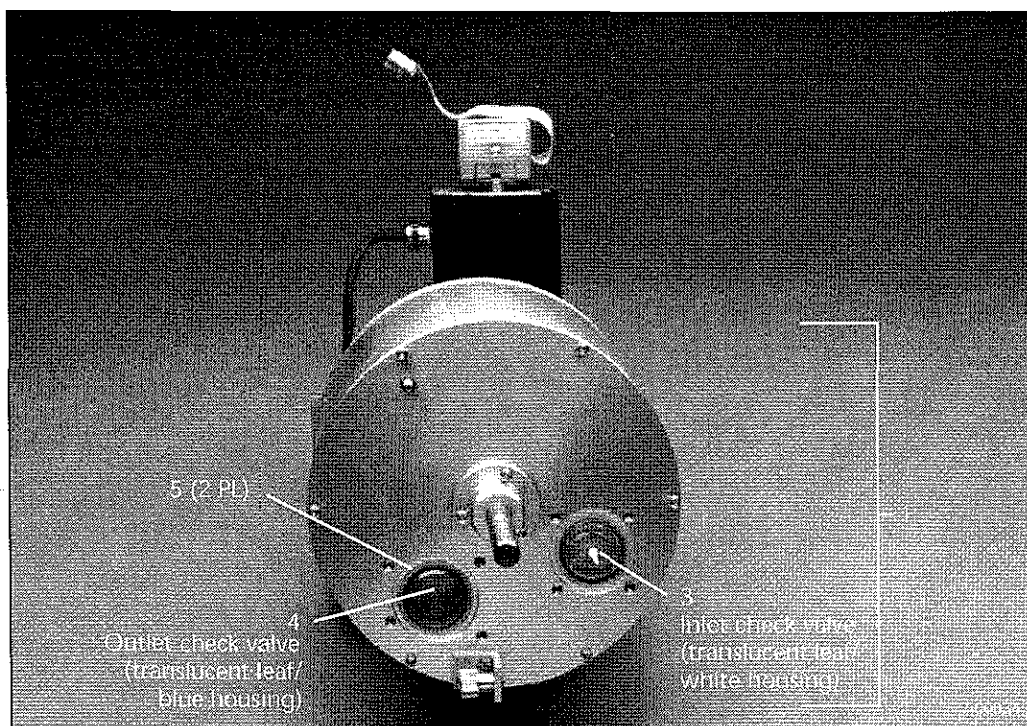
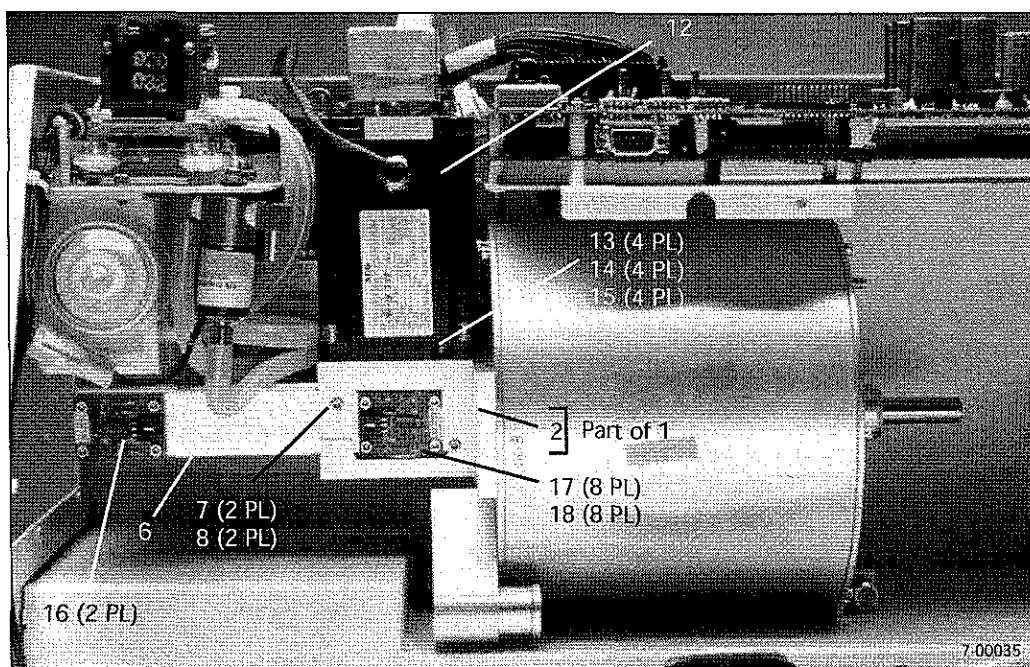


Figure 9-18. Piston/cylinder and motor/encoder assemblies (Sheet 1 of 2)

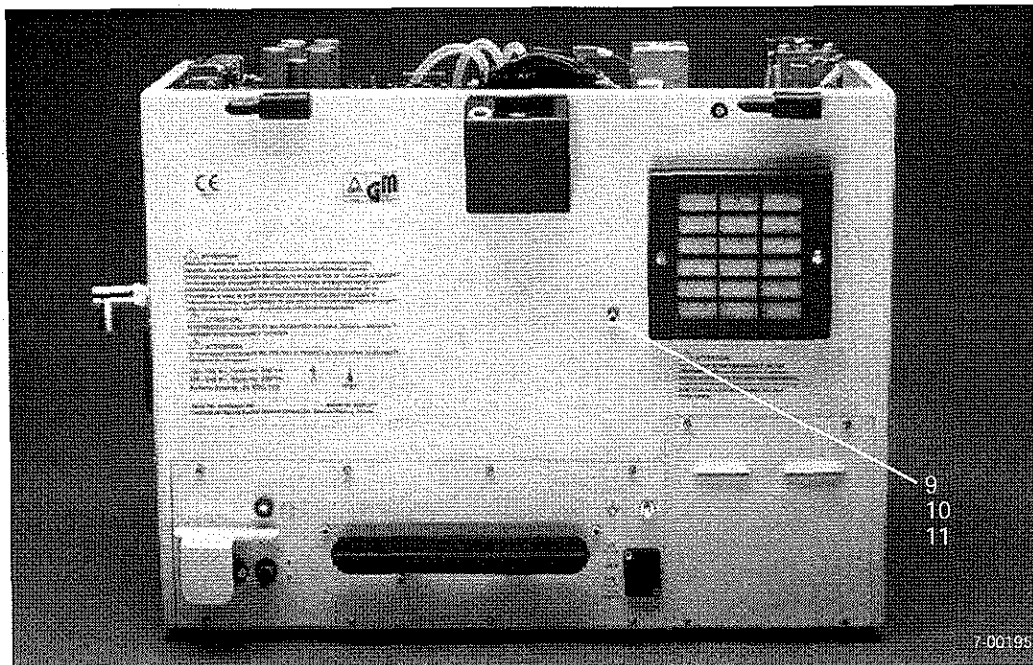
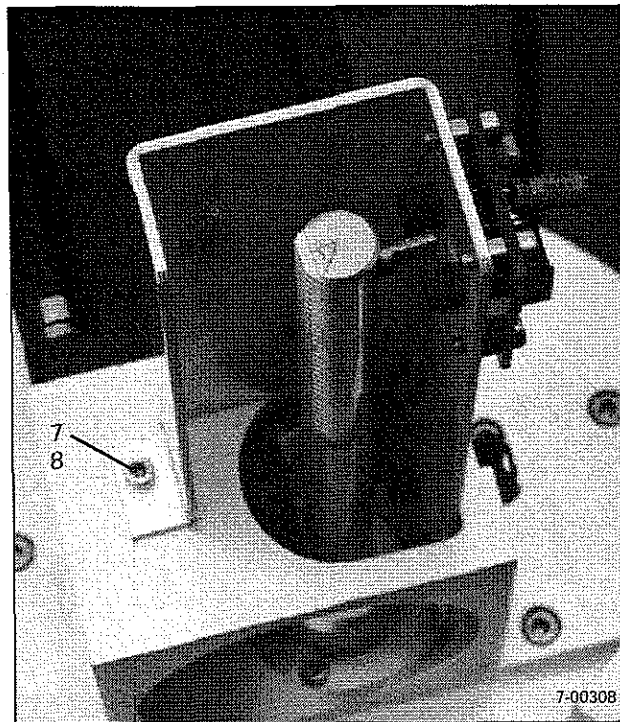


Figure 9-18. Piston/cylinder and motor/encoder assemblies (Sheet 2 of 2)

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9.18 Ventilator rear components

Ventilator rear components parts list

Item no. (Figure 9-19)	Part no.	Quantity	Description
1	G-061139-00	1	Battery, internal
2	--	1	Power assembly (See Section 9.19 for parts breakdown.)
3	G-061094-00	8	Screw, PAN, M3 x 12, POZIDRIV, with captive washers (Attaches power assembly)
4	G-060447-00	1	Back panel,
5	G-061340-00	1	Cord wrap
6	G-060129-00	1	Fan, main
7	--	--	Cover, fan filter (part of fan guard assembly, item 9)
8	G-061263-00	1	Filter, fan (package of 6)
9	G-060834-00	1	Fan guard assembly (includes fan filter cover and fan guard)
10	G-061122-00	4	Screw, PAN, M3 x 8, POZIDRIV, with captive washers (Attaches fan/fan guard to ventilator)
11	G-061942-00	1	Power cord retainer kit
12	G-061031-00	4	Screw, SOC, M3 x10 (Attaches fan to fan guard)
13	G-060995-00	4	Washer, SR, M3 (Attaches fan to fan guard)
14	G-060998-00	4	Washer, flat, M3 (Attaches fan to fan guard)
15	G-060448-00	1	Plate, battery compartment access
16	G-061094-00	4	Screw, PAN, M3 x 12, POZIDRIV, with captive washers (Attaches battery compartment access plate)
17	--	--	Not used
18	--	--	Not used
19	G-061096-00	1	Cable tie, small (Attaches fan harness to ventilator head harness) (not shown)

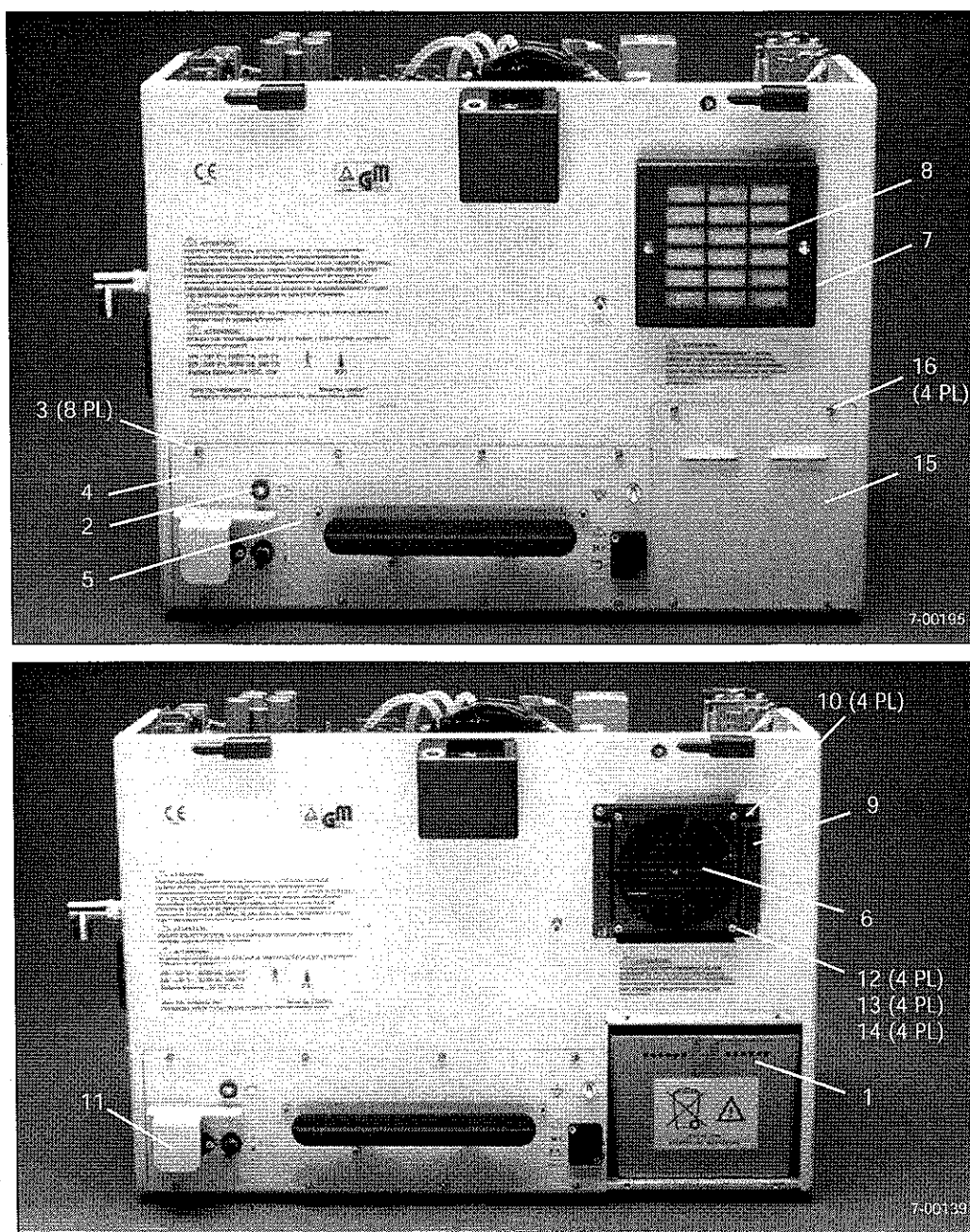


Figure 9-19. Ventilator rear components

9.19 Power assembly

Power assembly parts list

Item no. (Figure 9-20)	Part no.	Quantity	Description
--	--	--	Power assembly
1	G-060113-00	1	• Harness, external battery
2	G-060986-00	2	• Screw, FH, M3 x 8, POZIDRIV (Attaches external battery harness)
3	G-060979-00	3	• Screw, SOC, M4 x 12 (Attaches power supply to back panel)
4	G-060996-00	3	• Washer, SR, M4 (Attaches power supply to back panel)
5	G-061131-00	1	• Power supply, 120/230 V, 740/760 Ventilators (230 V regions, all languages)
	G-062334-00	1	• Power supply, 120 V, 740/760 Ventilators (120 V regions, English)
	G-062336-00	1	• Power supply, 120 V, 740/760 Ventilators (120 V regions, Spanish)
	G-062344-00	1	• Power supply, 120 V, 740/760 Ventilators (120 V regions, French)
	G-062346-00	1	• Power supply, 120 V, 740/760 Ventilators (120 V regions, Japanese)
	G-062348-00	1	• Power supply, 120 V, 740/760 Ventilators (120 V regions, Portuguese)
6	G-060987-00	4	• Screw, FH, M4 x 6, POZIDRIV (Attaches power supply from bottom) (not shown)
7	G-060031-00	1	• Switch, power
8	G-060033-00	1	• Circuit breaker
9	G-061085-00	1	• Line filter
10	G-060986-00	2	• Screw, FH, M3 x 8, POZIDRIV (Attaches line filter)
11	G-061942-00	1	• Power cord retainer kit
12	G-061122-00	1	• Screw, PAN, M3 x 8, POZIDRIV, with captive washers (Attaches power cord retainer) (not shown)
13	--	--	• Not used
14	G-060444-00	--	• Power tray
15	G-061182-00	1	• Rivet (Attaches power cord retainer)
16	G-060110-00	1	• Harness, circuit breaker/power switch
17	G-060111-00	1	• Harness, power switch/power supply
18	G-060116-00	1	• Harness, power switch/BBU PCB

Power assembly parts list (continued)

Item no. (Figure 9-20)	Part no.	Quantity	Description
19	G-060446-00	1	• Bracket, fan, power supply
20	G-060986-00	2	• Screw, FH, M3 x 8, POZIDRIV (Attaches power supply fan bracket to base)
21	G-060131-00	1	• Fan, power supply
22	G-060976-00	4	• Screw, SOC, M3 x 8 (Attaches power supply fan to bracket)
23	G-060995-00	4	• Washer, SR, M3 (Attaches power supply fan to bracket)
24	G-060998-00	4	• Washer, flat, M3 (Attaches power supply fan to bracket)
25	G-061129-00	1	• PCB, battery backup (BBU) (See Figure 9-21 for component locations.)
26	G-060293-00	1	• • Fuse, 10 A, fast-blow, F-type (F1) (See Figure 9-21 for location.)
27	G-060292-00	1	• • Fuse, 15 A, standard, T-type (F6) (See Figure 9-21 for location.)
28	G-061027-00	6	• Screw, SOC, M3 x 6 (Attaches BBU PCB)
29	G-060995-00	6	• Washer, SR, M3 (Attaches BBU PCB)
30	G-060989-00	6	• Nut, HEX, M3 (Attaches BBU PCB)
31	G-060517-00	2	• Heat bar, FET
32	G-061063-00	2	• Heat cap, FET
33	G-061024-00	4	• Screw, FH, M3 x 12, POZIDRIV (Attaches FET heat bars)
34	G-060535-00	6	• Standoff, male-female, M3 x 6 (Separates BBU PCB from power tray)
35	G-060918-00	1	• Heat bar, miniFET
36	G-061024-00	2	• Screw, FH, M3 x 12, POZIDRIV (Attaches miniFET heat bar)
37	G-060117-00	1	• Harness, power supply/BBU PCB
38	--	1	• Label, circuit breaker
39	--	1	• Power cord (See Section 9.20 for part numbers.) (not shown)
40	G-060990-00	1	• Nut, HEX, M4 (Attaches line filter ground wire) (not shown)
41	G-060994-00	1	• Washer, IN LK, M4 (Attaches line filter ground wire) (not shown)
42	G-061028-00	1	• Washer, flat, M4 (Attaches line filter ground wire) (not shown)
43	G-060445-00	1	• Baffle, power supply

Power assembly parts list (continued)

Item no. (Figure 9-20)	Part no.	Quantity	Description
44	G-060979-00	2	• Screw, SOC, M4 x 12 (Attaches baffle to power supply)
45	G-060996-00	2	• Washer, SR, M4 (Attaches baffle to power supply)
46	G-061086-00	1	• Wire, ground, line filter (not shown)
47	--	1	• Label, battery connection and potential equalization port
48	G-061096-00	2	• Cable tie, small (Attaches power switch/BBU PCB harness to baffle)
49	G-060937-00	2	• Strip, thermal conductive
50	G-060110-00	1	• Harness, line filter/circuit breaker
51	G-061061-00	1	• Bracket, BBU PCB grommet
52	G-060986-00	2	• Screw, FH, M3 x 8, POZIDRIV (Retains BBU PCB grommet bracket)
53	G-060830-00	1	• Wire, ground, power input terminal (not shown)
54	G-060990-00	1	• Nut, HEX, M4 (Attaches power input terminal ground wire) (not shown)
55	G-061028-00	1	• Washer, flat, M4 (Attaches power input terminal ground wire) (not shown)
56	G-060994-00	1	• Washer, IN LK, M4 (Attaches power input terminal ground wire) (not shown)
57	G-060829-00	1	• Harness, internal battery (not shown)
58	G-060846-00	1	• Harness, BBU PCB/ventilator head
59	--	1	• Label, power switch

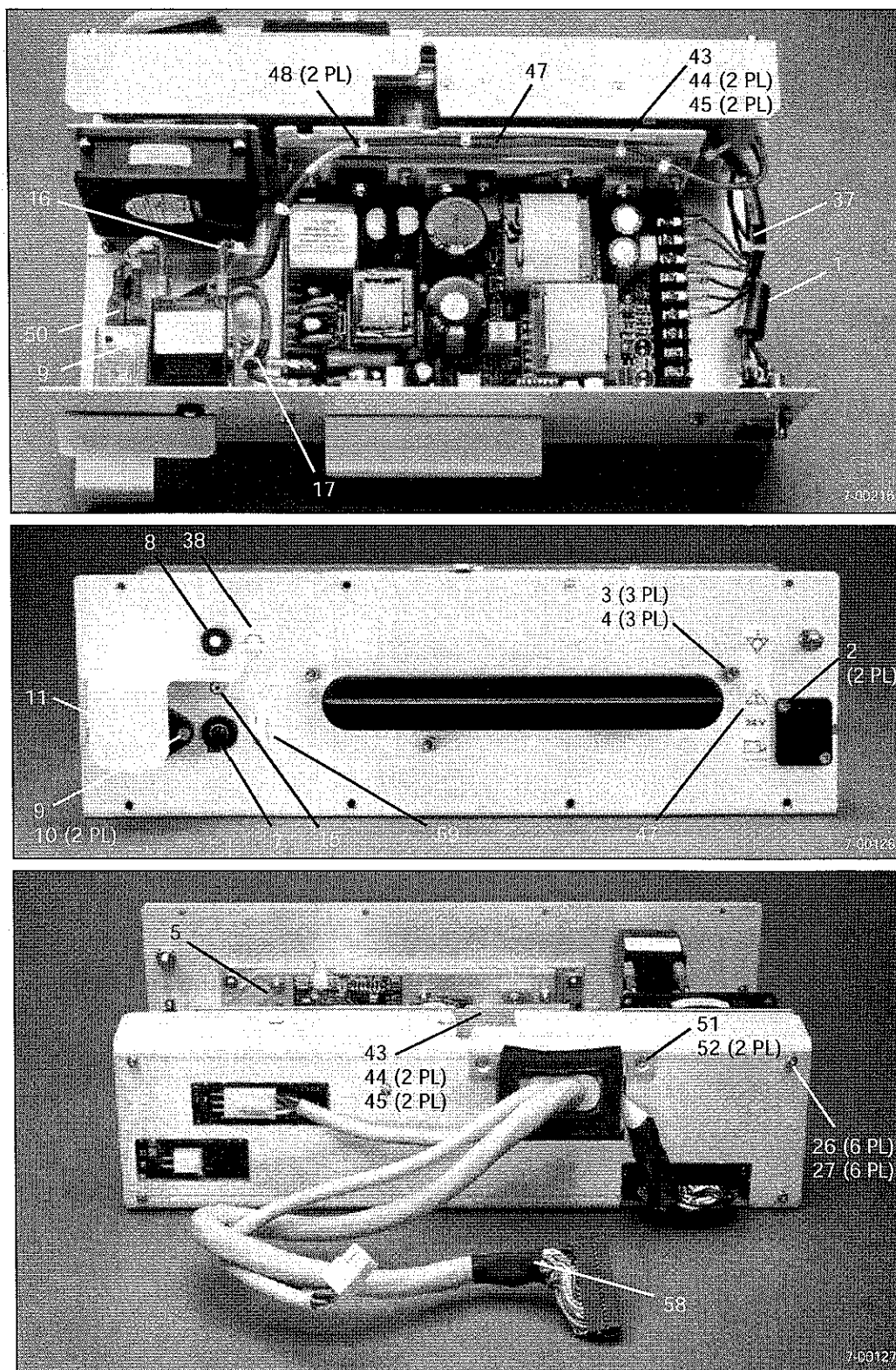
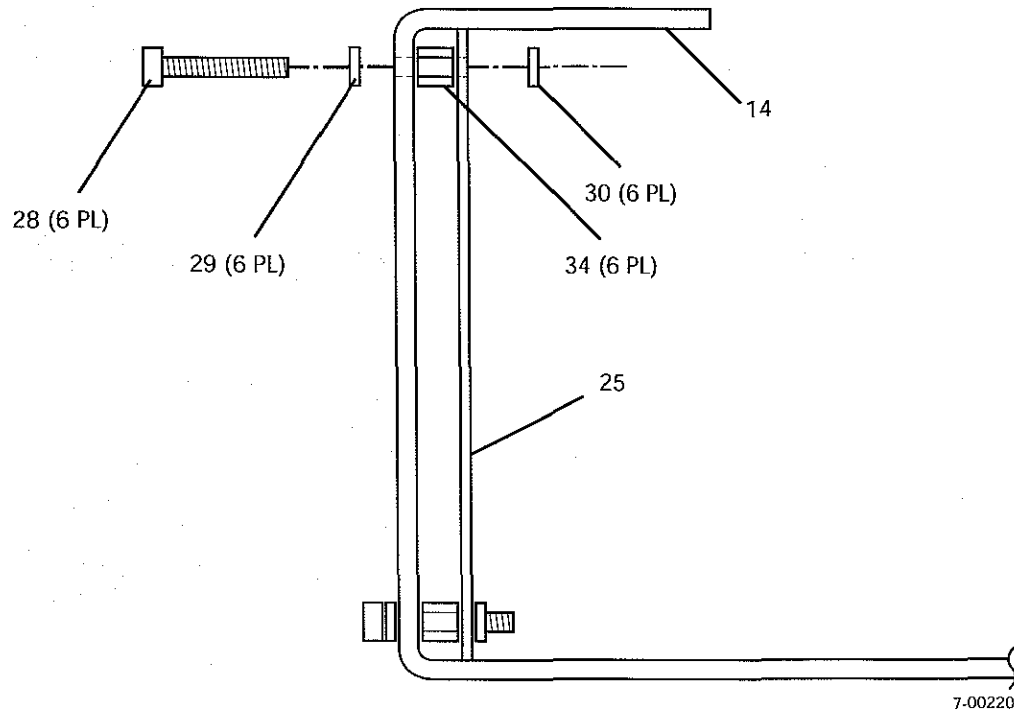
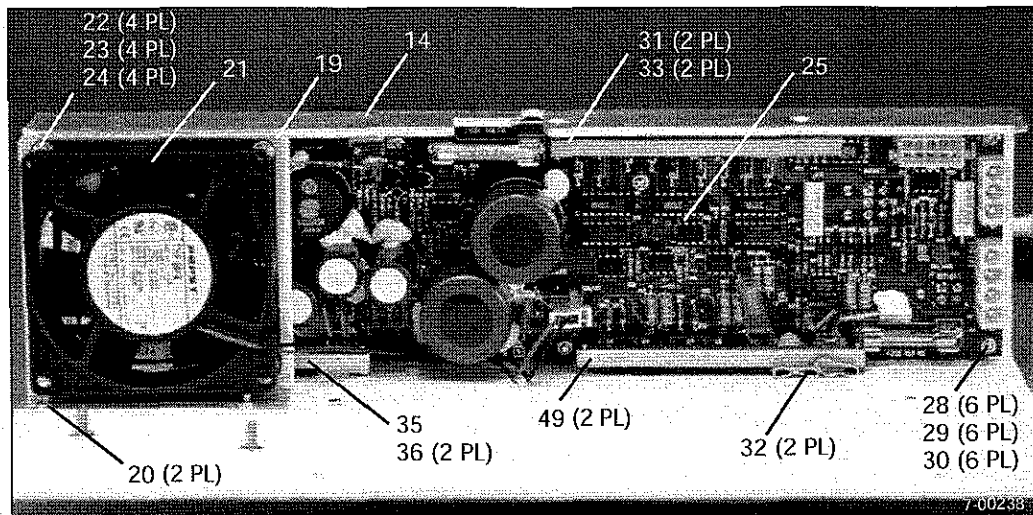


Figure 9-20. Power assembly (Sheet 1 of 2)



BBU PCB mounting

Figure 9-20. Power assembly (Sheet 2 of 2)

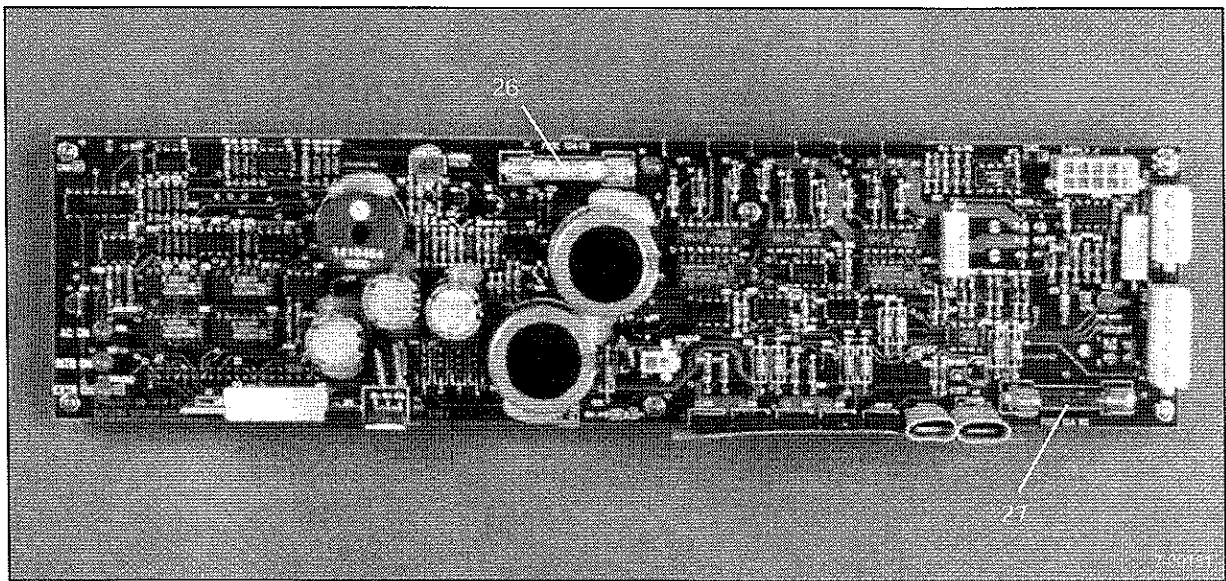


Figure 9-21. BBU PCB component locations

9.20 Power cords

Power cords parts list

Item no. (Figure 9-22)	Part no.	Quantity	Description
1	G-061241-00	1	Power cord, for North America/Japan
2	G-061242-00	1	Power cord, for Australia
3	G-061243-00	1	Power cord, for continental Europe
4	G-061247-00	1	Power cord, for India/South Africa (old, British-style plug with round prongs)
5	G-061248-00	1	Power cord, for Israel
6	G-061245-00	1	Power cord, for Italy
7	G-061246-00	1	Power cord, for Switzerland
8	G-060135-00	1	Power cord, for United Kingdom
9	G-061244-00	1	Power cord, for Denmark

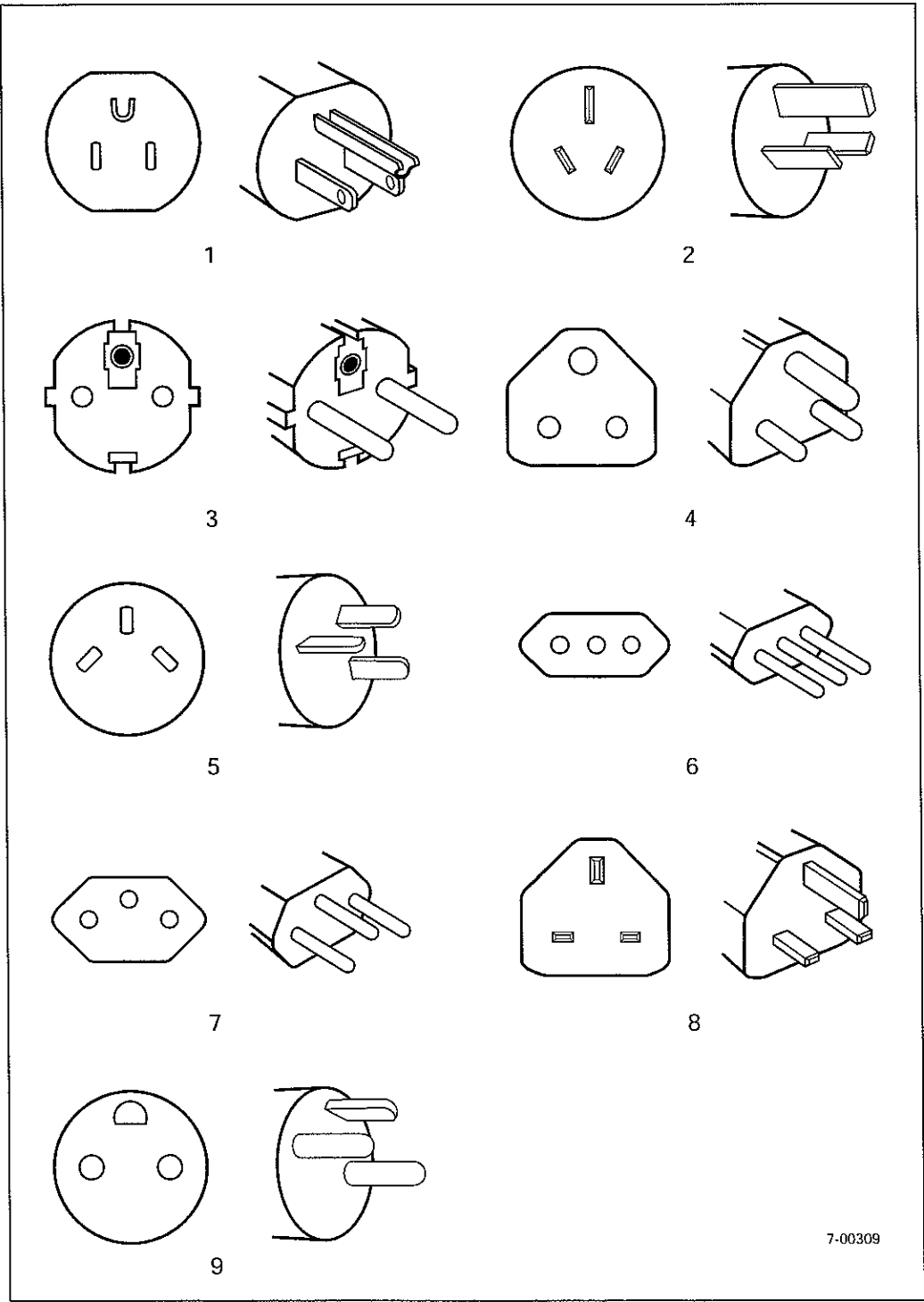
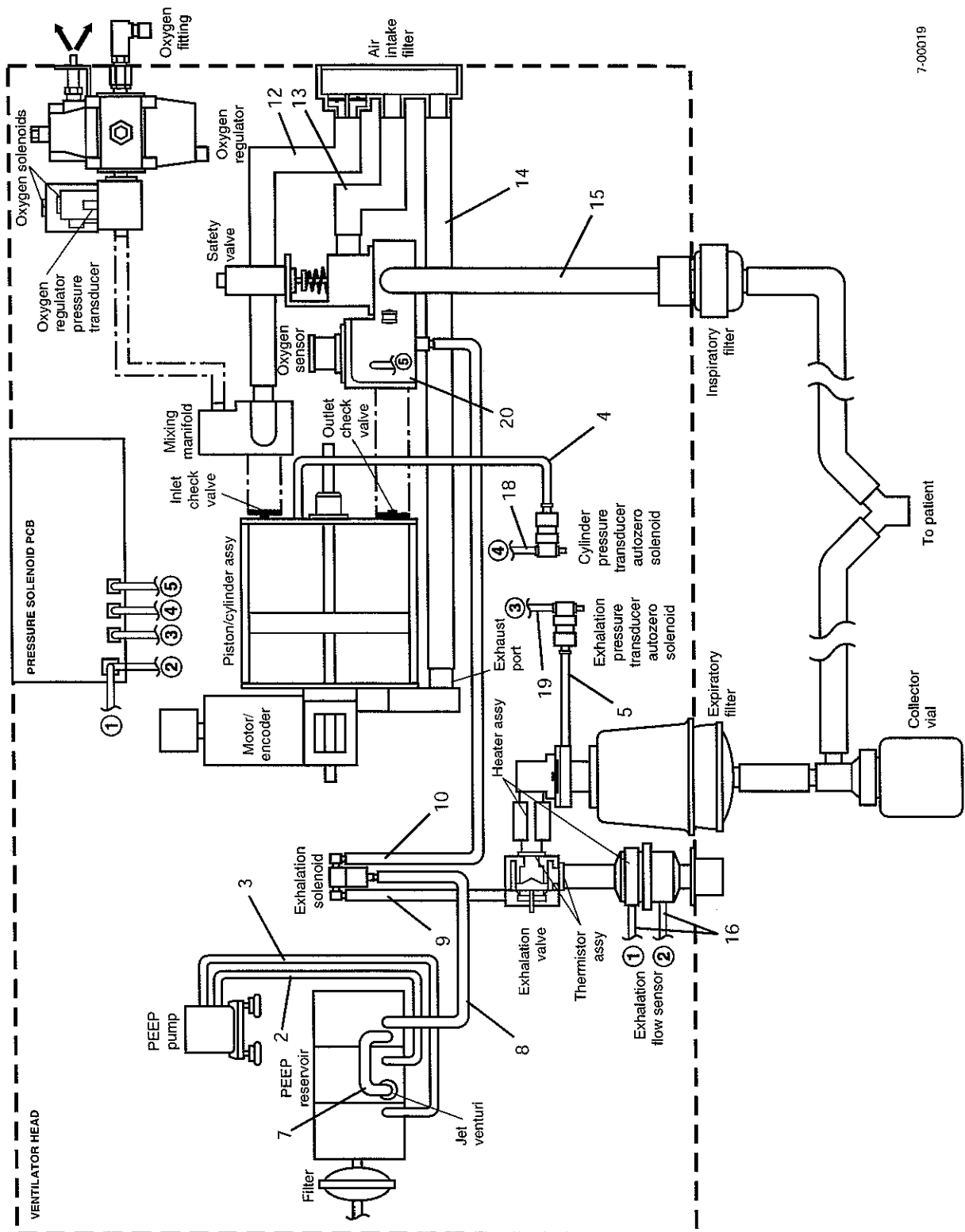


Figure 9-22. Power cords

9.21 Tubing

Tubing parts list

Item no. (Figure 9-23)	Part no.	Quantity/ length	Description
1	G-061407-00	1	Tube kit, silicone, 3-mm ID x 6-mm OD, 65.5 cm (Can be cut to supply one each of the following 3-mm ID x 6-mm OD tubes) (G-060125-00) (not shown)
2	--	16.0 cm	• Tube, silicone, 3-mm ID x 6-mm OD
3	--	16.0 cm	• Tube, silicone, 3-mm ID x 6-mm OD
4	--	12.5 cm	• Tube, silicone, 3-mm ID x 6-mm OD
5	--	21.0 cm	• Tube, silicone, 3-mm ID x 6-mm OD
6	G-061408-00	1	Tube kit, silicone, 3/16-in. ID x 3/8-in. OD, 89.0 cm (Can be cut to supply one each of the following 3/16-in. ID x 3/8-in. OD tubes) (4-008575-00) (not shown)
7	--	13.0 cm	• Tube, silicone, 3/16-in. ID x 3/8-in. OD
8	--	20.0 cm	• Tube, silicone, 3/16-in. ID x 3/8-in. OD
9	--	16.0 cm	• Tube, silicone, 3/16-in. ID x 3/8-in. OD
10	--	40.0 cm	• Tube, silicone, 3/16-in. ID x 3/8-in. OD
11	G-061406-00	1	Tube kit, silicone, 3/4-in. ID x 1-in. OD, 45.2 cm (Can be cut to supply one each of the following 3/4-in. ID x 1-in. OD tubes) (G-060495-00) (not shown)
12	--	10.7 cm	• Tube, silicone, 3/4-in. ID x 1-in. OD (for use with older air intake manifold assembly G-060217-00)
	--	10.5 cm	• Tube, silicone, 3/4-in. ID x 1-in. OD (for use with newer air intake manifold assembly G-062026-00)
13	--	4.0 cm	• Tube, silicone, 3/4-in. ID x 1-in. OD
14	--	30 cm	• Tube, silicone, 3/4-in. ID x 1-in. OD
15	G-060767-00	1	Tube, silicone, 3/4-in. ID x 1-in. OD, elbow
16	G-061087-00	1	Tube assembly, flow sensor
17	G-061455-00	1	Tube kit, silicone, 1/8-in. ID x 1/4-in. OD, 49.5 cm (Can be cut to supply one each of the following 1/8-in. ID x 1/4-in. OD tubes) (4-008578-00) (not shown)
18	--	9.5 cm	• Tube, silicone, 1/8-in. ID x 1/4-in. OD
19	--	11.0 cm	• Tube, silicone, 1/8-in. ID x 1/4-in. OD
20	--	29.0 cm	• Tube, silicone, 1/8-in. ID x 1/4-in. OD



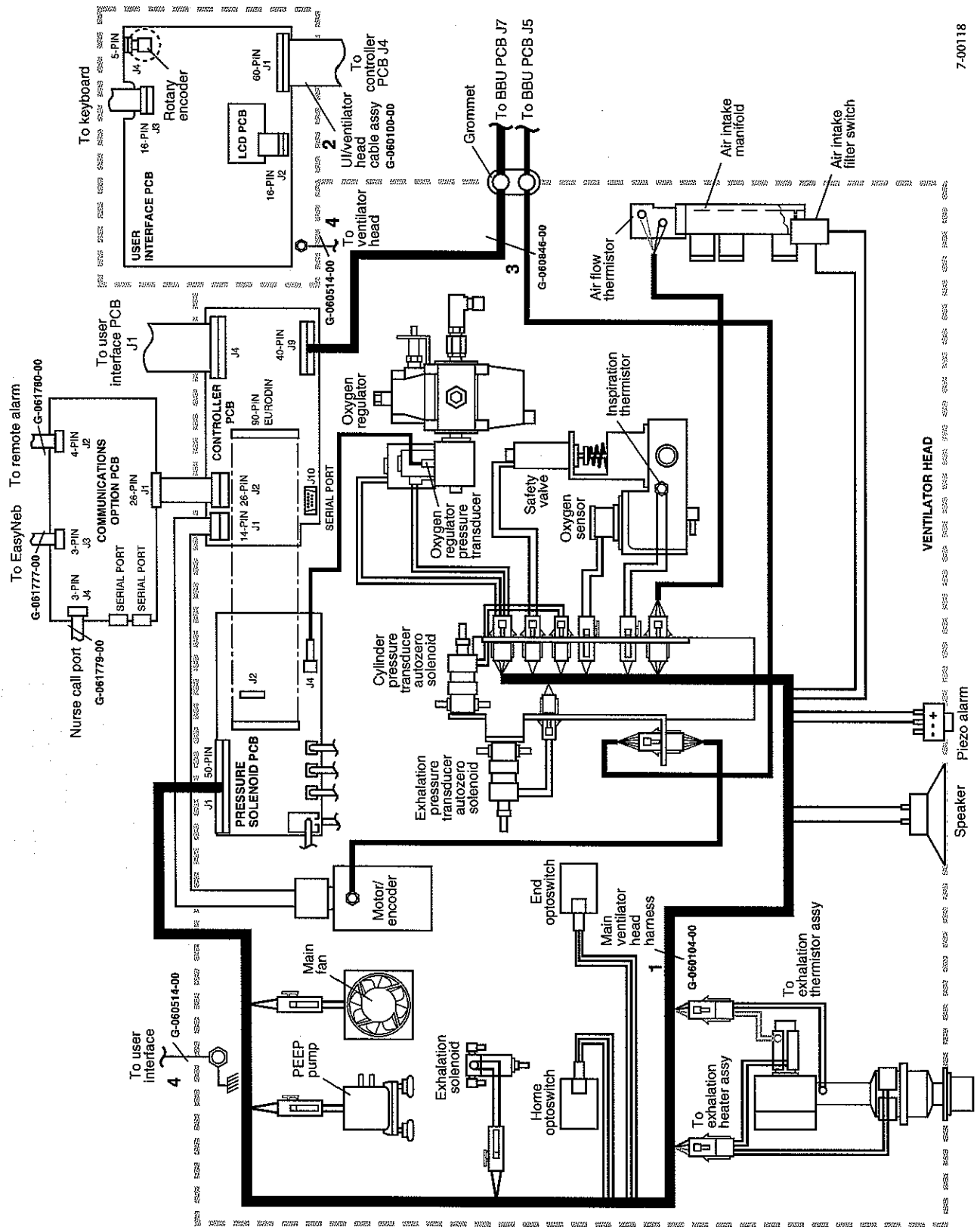
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Figure 9-23. Tubing

9.22 Harnesses and wiring

Harnesses and wiring parts list

Item no. (Figure 9-24)	Part no.	Quantity	Description
1	G-060104-00	1	Harness, ventilator head, main
2	G-060100-00	1	Cable assembly, UI/ventilator head
3	G-060846-00	1	Harness, BBU PCB/ventilator head
4	G-060514-00	1	Wire, ground, UI
5	G-060113-00	1	Harness, external battery
6	G-060117-00	1	Harness, power supply/BBU PCB
7	G-060110-00	1	Harness, circuit breaker/power switch
8	G-060111-00	1	Harness, power switch/power supply
9	G-060830-00	1	Wire, ground, power input terminal
10	G-060829-00	1	Harness, internal battery
11	G-061086-00	1	Wire, ground, line filter
12	G-060110-00	1	Harness, line filter/circuit breaker
13	G-060116-00	1	Harness, power switch/BBU PCB



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Figure 9-24. Wiring diagram (Sheet 1 of 2)

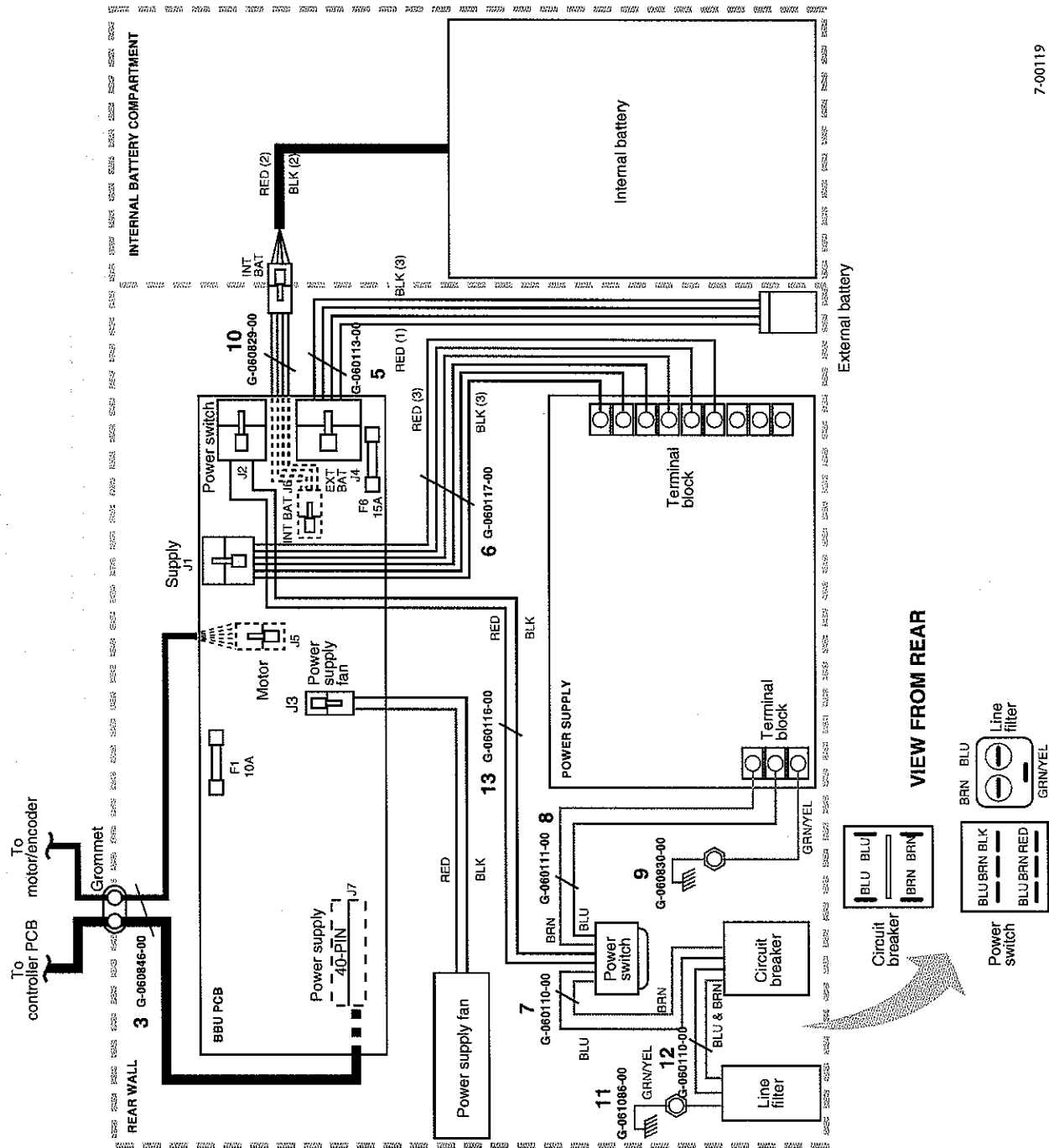


Figure 9-24. Wiring diagram (Sheet 2 of 2)

9.23 15,000-hour preventive maintenance kit

15,000-hour preventive maintenance kit parts list

Item no. (Figure 9-25)	Part no.	Quantity	Description
--	G-061166-00	--	Kit, preventive maintenance, 15,000-hour
1	--	1	• Filter, fan
2	G-060129-00	1	• Fan, main
3	G-060131-00	1	• Fan, power supply
4	G-060090-00	1	• Solenoid, exhalation
5	G-062022-00	1	• Regulator, oxygen
6	G-060532-00	1	• Grease, 10 grams (not shown)
7	--	1	• Label, preventive maintenance, 15,000-hour (not shown)
8	G-062301-00	1	• Grommet kit, inspiration access panel (includes 10 grommets) (not shown)

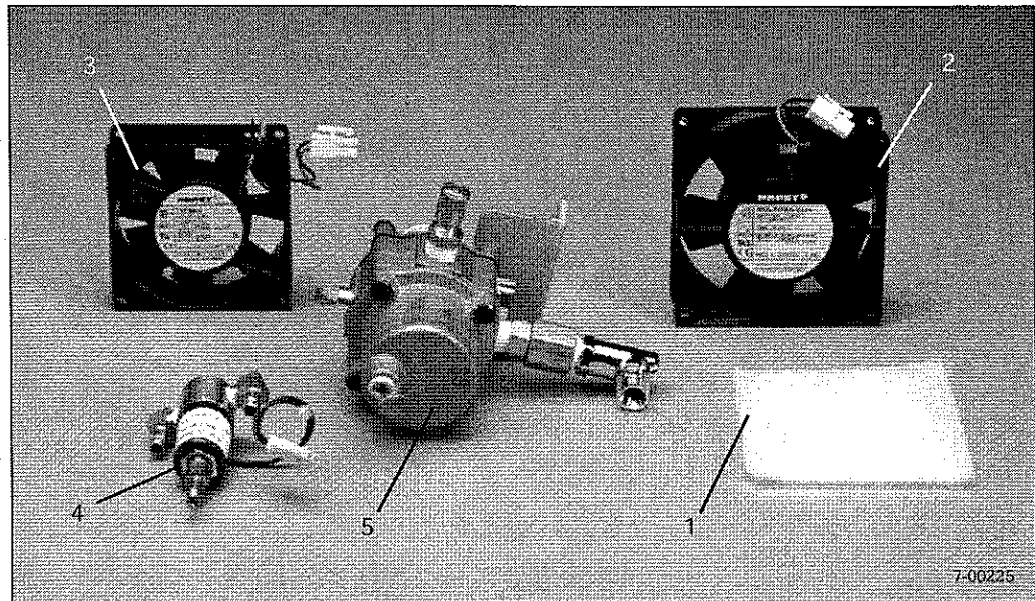


Figure 9-25. 15,000-hour preventive maintenance kit

9.24 30,000-hour preventive maintenance kit

30,000-hour preventive maintenance kit parts list

Item no. (Figure 9-26)	Part no.	Quantity	Description
--	G-061167-00	--	Kit, preventive maintenance, 30,000-hour
1	--	1	• Filter, fan
2	G-060129-00	1	• Fan, main
3	G-060131-00	1	• Fan, power supply
4	G-060090-00	1	• Solenoid, exhalation
5	G-062022-00	1	• Regulator, oxygen
6	G-060532-00	1	• Grease, 10 grams (not shown)
7	G-061133-00	1	• Pump, vibrating armature (PEEP)
8	--	1	• Label, preventive maintenance, 30,000-hour (not shown)
9	G-062301-00	1	• Grommet kit, inspiration access panel (includes 10 grommets) (not shown)

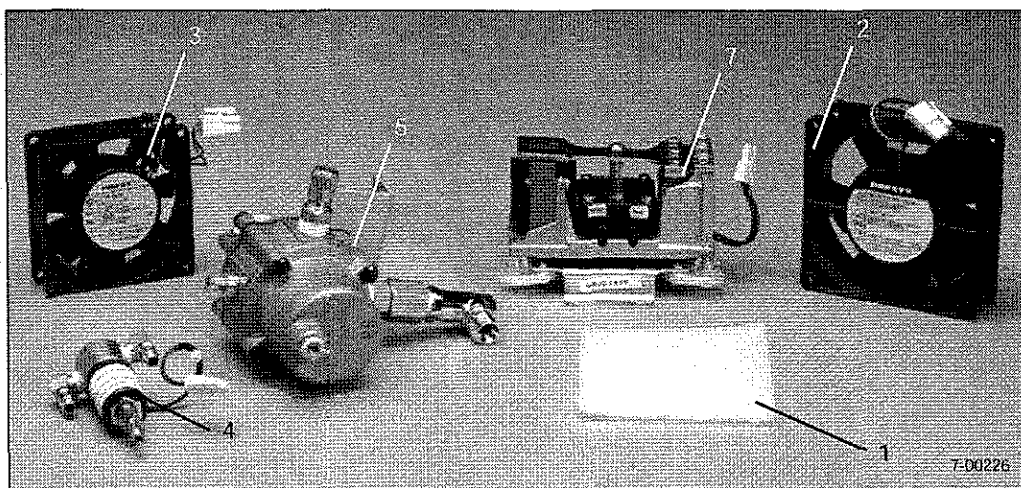


Figure 9-26. 30,000-hour preventive maintenance kit

9.25 700 Series Ventilator spare parts kit

700 Series Ventilator spare parts kit parts list

Item no.	Part no.	Quantity	Description
--	G-061560-00	--	Kit, 700 Series Ventilator service (spare parts)
1	G-061129-00	1	• PCB, battery backup (BBU)
2	G-062146-00	1	• PCB, controller
3	G-061252-00	1	• Check valve, exhalation
4	G-061693-00	1	• Heater assembly, exhalation
5	G-061526-00	1	• Valve assembly, exhalation
6	G-061144-00	1	• Flow sensor assembly
7	G-061139-00	1	• Battery, internal
8	G-061138-00	1	• Motor/encoder assembly
9	G-061255-00	1	• Optoswitch (motor-opto) assembly
10	G-062022-00	1	• Regulator, oxygen
11	G-061133-00	1	• Pump, vibrating armature (PEEP)
12	--	--	• Not used
13	G-061127-00	1	• PCB, pressure solenoid
14	--	--	• Not used
15	G-061262-00	1	• Filter, air intake (package of 6)
16	G-060033-00	1	• Circuit breaker
17	G-060090-00	1	• Solenoid, exhalation (PEEP)
18	G-060129-00	1	• Fan, main
19	G-061263-00	1	• Filter, fan (package of 6)
20	G-060131-00	1	• Fan, power supply
21	G-060293-00	1	• Fuse, 10 A, fast-blow, F-type (F1)
22	G-060292-00	1	• Fuse, 15 A, standard, T-type (F6)
23	G-060045-00	1	• Gasket, check valve
24	G-062138-00	1	• Alarm, piezo (buzzer)
25	G-061085-00	1	• Line filter
26	G-060031-00	1	• Switch, power
27	G-061694-00	1	• Transducer, pressure, oxygen regulator
28	G-060771-00	1	• Rotary encoder, UI
Parts listed here are shown in other figures throughout the manual.			

700 Series Ventilator spare parts kit parts list (continued)

Item no.	Part no.	Quantity	Description
29	G-061407-00	1	• Tube kit, silicone, 3-mm ID x 6-mm OD, 65.5 cm (Can be cut to supply one each of the following 3-mm ID x 6-mm OD tubes) (G-060125-00)
30	G-061408-00	1	• Tube kit, silicone, 3/16-in. ID x 3/8-in. OD, 89.0 cm (Can be cut to supply one each of the following 3/16-in. ID x 3/8-in. OD tubes) (4-008575-00)
31	G-061406-00	1	• Tube kit, silicone, 3/4-in. ID x 1-in. OD, 45.2 cm (Can be cut to supply one each of the following 3/4-in. ID x 1-in. OD tubes) (G-060495-00)
32	G-060767-00	1	• Tube, silicone, 3/4-in. ID x 1-in. OD, elbow
33	G-060845-00	1	• Thermistor assembly, air flow
34	G-060095-00	1	• Thermistor, inspiration manifold
35	G-061556-00	1	• Fuse, 15 A, 32 V, blade (external battery)
36	G-061251-00	1	• Check valve, cylinder inlet (white housing)
37	G-061250-00	1	• Check valve, cylinder outlet (blue housing)
38	G-062023-00	1	• Oxygen solenoid assembly
Parts listed here are shown in other figures throughout the manual.			

9.26 Service tool kit

700 Series Ventilator service tool kit

Item no.	Part no.	Quantity	Description
--	G-061561-00	--	Kit, 700 Series Ventilator service tool
1	G-061566-00	1	• NVRAM extractor tool
2	G-061914-00	1	• EPROM extractor tool, 32-pin, PLCC type
3	G-061567-00	1	• Multimeter patch cord set, 0.025 square receptacle (Includes red cord (P/N G-061579-00) and black cord (P/N G-061580-00))
4	G-061661-00	1	• Kit, static-dissipative field service (includes wrist strap, static-dissipative mat, and ground cord)
5	G-061574-00	1	• Stopper, wye (no. 2)
6	G-061575-00	1	• Stopper, inspiration port (no. 3)
7	G-061208-00	1	• Ventilator breathing circuit, adult, reusable, without heated wire (for use as test circuit)
8	G-061573-00	1	• Kit, tubing, performance verification. Includes: <ul style="list-style-type: none"> • two couplings (P/N 4-003443-00) • two tube junction connectors (P/N 4-011521-00) • 30-cm, 3/16-in. ID x 3/8-in. OD tubing
9	4-000612-00	1	• Test lung with strap
10	G-061540-00	1	• PEEP pump calibration tool
11	G-061557-00	1	• Kit, $P_{eP_{cyl}}$ gain equalization. Includes: <ul style="list-style-type: none"> • 5-mL syringe (P/N G-061558-00) • reservoir (P/N 4-011413-00) • tee (4-003891-00) • four 25-cm lengths, 3-mm ID x 6-mm OD tubing
12	G-060759-00	1	• Tape, PTFE
13	G-060532-00	1	• Grease, 10 grams
14	G-061576-00	1	• Cleaning spray, UI
15	G-061568-00	1	• Brush, rack grease
16	G-061534-00	1	• Bag, electrostatic-shielding, 66 x 46 cm (26 x 18 in.)
17	G-061532-00	1	• Bag, electrostatic-shielding, 13 x 20 cm (5 x 8 in.)
18	G-061533-00	1	• Bag, electrostatic-shielding, 28 x 38 cm (11 x 15 in.)
19	G-061660-00	10	• Label, antistatic

9.27 Oxygen sensor assemblies

700 Series Ventilator oxygen sensor assemblies

Item no.	Part no.	Quantity	Description
1	G-062022-00	1	• Regulator, oxygen
2	G-062023-00	1	• Oxygen solenoid assembly
3	G-062009-00	1	• Oxygen sensor kit (includes oxygen sensor, sensor harness, adapter, and hardware; replaces sensor with integral harness)
4	G-062010-00	1	• Oxygen sensor (includes oxygen sensor only)
Parts listed here are shown in other figures throughout the manual.			

9.28 Communications option

700 Series Communications option assemblies

Item no.	Part no.	Quantity	Description
--	G-061831-00	--	Kit, Communications option upgrade
1	G-062013-00	1	Plate assembly, Communications option
2	G-062015-00	1	PCB assembly, Communications option
3	G-062014-00	1	Harness, nebulizer
4	G-062016-00	1	Harness, remote alarm
5	G-062017-00	1	Harness, communications (ribbon cable to/from controller PCB)
6	G-062018-00	1	Hardware, RS-232
7	G-062003-00	1	Harness, nurse call (central station)

9.29 760 Ventilator assemblies

760 Ventilator assemblies

Item no.	Part no.	Quantity	Description
1	G-062146-00	1	PCB, controller
2	G-062030-00	1	Kit, upgrade, 740-to-760 Ventilator, English
	G-062153-00	1	Kit, upgrade, 740-to-760 Ventilator, French
	G-062154-00	1	Kit, upgrade, 740-to-760 Ventilator, German
	G-062155-00	1	Kit, upgrade, 740-to-760 Ventilator, Italian
	G-062156-00	1	Kit, upgrade, 740-to-760 Ventilator, Spanish
	G-062157-00	1	Kit, upgrade, 740-to-760 Ventilator, Portuguese
	G-062158-00	1	Kit, upgrade, 740-to-760 Ventilator, Polish
	G-062159-00	1	Kit, upgrade, 740-to-760 Ventilator, Russian
	G-062160-00	1	Kit, upgrade, 740-to-760 Ventilator, Japanese